



Welcome to the Biological Responses to Biomaterials group!

In our lab you will be part of our research team to investigating new biomaterials for bone healing. Your contribution will make an impact on the research and you will help us to bring our applications closer to the clinic

Our group is working with biomaterials, mainly targeted to bone healing and bone fracture treatment. The materials we work with are injectable bone fillers, ceramics and metal implants. Our projects involve interdisciplinary collaborations between physicists, biologist and clinicians from different departments, where new ideas are taken forward into clinical applications, crafting materials that actually make a difference for the patient.

Our aim is to develop and evaluate bone substitutes and hardware with specific bioactivity and maintained biocompatibility. At the moment, our main focus is on testing a novel bone adhesive *in vitro* and *in vivo*.

Your daily work will focus mainly on different *in vitro* tests, such as cell cultures and molecular biological assays. These will contribute to improve our understanding of the biological interactions of this novel material on a cellular level. Some of the techniques you will use are cell viability assays, gene expression analysis, micro computed tomography and histology.

If you are independent with good lab skills and interested in pursuing your master project/research project please contact:

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